

Int. Appl. No. : PCT/US2004/040674
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AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph on page 1, lines 4-9, with the following amended paragraph:

This application is a US National Phase of International Application No. PCT/US2004/040674, filed December 3, 2004, designating the US and published in English on June 23, 2005 as WO 2005/056600, which claims the benefit of US Provisional Application No. 60/624,261, filed November 1, 2004; US Provisional Application No. 60/574,492, filed May 26, 2004; US Provisional Application No. 60/552,528, filed March 12, 2004; US Provisional application No. 60/541,676, filed February 4, 2004; and US Provisional Application No. 60/528,161, filed December 8, 2003, all of which are hereby expressly incorporated by reference in their entireties.

Please replace the paragraph on page 4, lines 19-25, with the following amended paragraph:

Figure 2. Alignment of amino acid sequences among DENV-4-specific and cross-reactive Fab monoclonal antibodies. The amino acid sequences of the six chimpanzee Fab monoclonal antibodies recovered by repertoire cloning were compared. (A) Sequences of V_L light chain segments (5A7 – SEQ ID NO: 25; 3C1 – SEQ ID NO: 41; 3E4 – SEQ ID NO: 57; 7G4 – SEQ ID NO: 73; 5H2 – SEQ ID NO: 9; 5D9 – SEQ ID NO: 89). (B) V_H heavy chain segments (5A7 – SEQ ID NO: 17; 3C1 – SEQ ID NO: 33; 3E4 – SEQ ID NO: 49; 7G4 – SEQ ID NO: 65; 5H2 – SEQ ID NO: 1; 5D9 – SEQ ID NO: 81). The framework regions (FR1 to FR4) and complementarity determining regions (CDR1 to CDR3) are shown. A dash symbol indicates where an amino acid deletion occurred, and an identical amino acid is represented by a comma.

Please replace the paragraph on page 5, lines 12-16, with the following amended paragraph:

Figure 6. Amino acid sequences of Fabs. (A) sequences of the V_L κ light chain segments (2H7 – SEQ ID NO: 121; 2H5 – SEQ ID NO: 137; 3A2 – SEQ ID NO: 153; 1A5 – SEQ ID NO: 105; 1B2 – SEQ ID NO: 169; 1A10 – SEQ ID NO: 185; 3E4 – SEQ ID NO: 57); (B) sequences of the V_H γ1 heavy chain segments (2H7 – SEQ ID NO: 113; 2H5 – SEQ ID NO: 129; 3A2 – SEQ ID NO: 145; 1A5 – SEQ ID NO: 97; 1B2 – SEQ ID NO: 161; 1A10 – SEQ ID NO: 177);

3E4 – SEQ ID NO: 49). FR, framework region; CDR, complementarity-determining region. The dash symbol represents an amino acid deletion and an identical amino acid is indicated by a dot. The sequence of Fab 3E4 was included for comparison with that of Fab 1A10.

Please replace the paragraph on page 6, lines 16-30, with the following amended paragraph:

Figure 12. Alignment of amino acid sequences among flaviviruses. (A) shows the sequences surrounding Val₁₀₆ found in DENV-2 variants NGB-V2 and NGC-V2. The fusion sequence (loop) between c and d β -strands is underlined (DENV-2 P – SEQ ID NO: 203; DENV-2 V2 – SEQ ID NO: 204; DENV-1 – SEQ ID NO: 205; DENV-3 – SEQ ID NO: 206; DENV-4 – SEQ ID NO: 207; WNV – SEQ ID NO: 208; JEV – SEQ ID NO: 209; JEV SA14-14-2 – SEQ ID NO: 210; SLEV – SEQ ID NO: 211; YFV Asibi – SEQ ID NO: 212; YFV 17D – SEQ ID NO: 213; LGTV – SEQ ID NO: 214; TBEV – SEQ ID NO: 215). (B) shows the sequences surrounding Gln₃₁₇ present in DENV-2 variant NGB-V1. The sequence between A and B β -strands is underlined (DENV-2 P – SEQ ID NO: 216; DENV-2 V1 – SEQ ID NO: 217; DENV-1 – SEQ ID NO: 218; DENV-3 – SEQ ID NO: 219; DENV-4 – SEQ ID NO: 220; WNV – SEQ ID NO: 221; JEV – SEQ ID NO: 222; JEV SA14-14-2 – SEQ ID NO: 223; SLEV – SEQ ID NO: 224; YFV Asibi – SEQ ID NO: 225; YFV 17D – SEQ ID NO: 226; LGTV – SEQ ID NO: 227; TBEV – SEQ ID NO: 228). The references of the flavivirus sequences are as follows: DENV-1 (Mason, P. W. *et al.* 1987 *Virology* **161**:262-267); DENV-2 (Hahn, Y. S. *et al.* 1988 *Virology* **162**:167-180); DENV-3 (Osatomi, K. and H. Sumiyoshi. 1990 *Virology* **176**:643-647); DENV-4 (Zhao, B. *et al.* 1986 *Virology* **155**:77-88); WNV (Lanciotti, R. S. *et al.* 1999 *Science*. **286**:2333-2337; Wengler, G. *et al.* 1985 *Virology* **147**:264-274); St. Louis encephalitis virus (SLEV) (Trent, D. *et al.* 1987 *Virology* **156**:293-304); JEV JaOAr S982 (Sumiyoshi, H. *et al.* 1987 *Virology* **161**:497-510); JEV SA14-14-2 (Nitayaphan, S. *et al.* 1990 *Virology* **177**:541-552); YFV 17D (Rice, C. M. *et al.* 1985 *Science* **229**:726-733); YFV Asibi (Hahn, C. S. *et al.* 1987 *Proc. Natl. Acad. Sci. USA* **84**:2019-2023); Langat virus (LGTV) (Mandl, C. W. *et al.* 1991 *Virology* **185**:891-895); TBEV (Mandl, C. W. *et al.* 1988 *Virology* **166**:197-205).

Please add an Abstract provided herewith as the last page of the Specification.